

## CLAIMS:

I claim:

1. A computer integrated cordless phone comprising a cordless handset transceiver configured for coupling to an antenna shared with a wireless network adapter through a multiplexer/demultiplexer so that both of said cordless handset transceiver and said wireless network adapter transmit and receive data within a common wireless frequency spectrum.
2. The computer integrated cordless phone of claim 1, wherein said cordless handset transceiver comprises a further configuration for coupling to a central processing unit, audio processing circuitry and power supply within a computing device shared with said wireless network adapter.
3. The computer integrated cordless phone of claim 1, wherein said common wireless frequency spectrum comprises the industrial scientific medical band.
4. A computer integrated cordless telephone comprising:
  - a personal computer having a central processing unit (CPU), display, power supply, audio processing circuitry, a microphone transducer and at least one speaker;
  - a radio frequency antenna coupled to a multiplexer/demultiplexer;
  - a wireless network transceiver and a cordless telephone transceiver disposed within said personal computer, said cordless telephone transceiver having a communicative link to said microphone transducer and said at least one speaker

through said audio processing circuitry, wherein both of said transceivers are coupled to said multiplexer/demultiplexer, are powered by said power supply, and share access to said CPU and display.

5. An integrated computer telephony system comprising:

at least one computer participating in a wireless network;

a cordless phone base station bound to a telephone outlet through a cabled connection; and,

a wireless network adapter and cordless handset circuit both disposed in said at least one computer and configured to share common computing resources within said at least one computer, said wireless network adapter establishing and maintaining data communications in said wireless network, said cordless handset circuit establishing and maintaining cordless telephony with said cordless phone base station.

6. The integrated computer telephony system of claim 5, wherein said cordless handset circuit establishes and maintains said cordless telephony with said base station in a frequency spectrum which differs from a frequency spectrum in which said wireless network adapter establishes and maintains data communications in said wireless network.

7. The integrated computer telephony system of claim 6, wherein said wireless network adapter and said cordless handset circuit share common information transceiving circuitry with one another in a single personal computer device.

8. A method for integrated computer telephony, comprising the steps of:

transmitting and receiving data in a personal computer over a wireless network through wireless radio frequency structure;

further establishing and maintaining a telephone call with a cordless base station through a graphical user interface disposed within said personal computer using said wireless radio frequency structure; and,

respectively multiplexing and demultiplexing data in said transmitting and receiving steps with transmitted and received audio signals processed in said establishing and maintaining steps over said wireless radio frequency structure.

9. A machine readable storage comprising a computer program for providing integrated computer telephony, said computer program comprising a routine set of instructions for causing the machine to perform the steps of:

transmitting and receiving data in a personal computer over a wireless network through wireless radio frequency structure;

further establishing and maintaining a telephone call with a cordless base station through a graphical user interface disposed within said personal computer using said wireless radio frequency structure; and,

respectively multiplexing and demultiplexing data in said transmitting and receiving steps with transmitted and received audio signals processed in said establishing and maintaining steps over said wireless radio frequency structure.